

Title (en)  
ARC WELDING ROBOT

Title (de)  
LICHTBOGENSCHWEISSROBOTER

Title (fr)  
ROBOT DE SOUDAGE A L'ARC

Publication  
**EP 1671736 A4 20090318 (EN)**

Application  
**EP 05765590 A 20050708**

Priority  
• JP 2005012652 W 20050708  
• JP 2004204386 A 20040712

Abstract (en)  
[origin: EP1671736A1] The invention provides an arc welding robot capable of collecting and displaying waveform data in a welding operation without using an external device. The arc welding robot comprises: a manipulator 101 including a welding torch 124 mounted thereon; a control unit 102 for operating the manipulator 101 in a given operation pattern in accordance with a previously taught operation program, the control unit 102 including therein a welding part 104 for welding a member to be welded 125 under a given welding condition, and a RAM 106 for recording waveform data relating to at least one of a welding current instruction value, a welding current output value, a welding voltage instruction value, a welding voltage output value, a welding speed, a wire feed speed, the number of times of short circuits and a wire feed motor current during a given period; and, display means for graphically displaying the waveform data recorded in the RAM 106.

IPC 8 full level  
**B23K 9/12** (2006.01); **B23K 9/127** (2006.01); **B25J 9/22** (2006.01); **G05B 19/4063** (2006.01)

CPC (source: EP US)  
**B23K 9/0953** (2013.01 - EP US); **G05B 19/4063** (2013.01 - EP US); **G05B 2219/37078** (2013.01 - EP US); **G05B 2219/37382** (2013.01 - EP US); **G05B 2219/45104** (2013.01 - EP US)

Citation (search report)  
• [X] US 5812408 A 19980922 - KARAKAMA TATSUO [JP], et al  
• See references of WO 2006006517A1

Citation (examination)  
• EP 1215552 A2 20020619 - FANUC LTD [JP]  
• EP 1027951 A1 20000816 - YASKAWA DENKI SEISAKUSHO KK [JP]  
• US 2004099648 A1 20040527 - HU SHIXIN JACK [US], et al

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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1671736 A1 20060621**; **EP 1671736 A4 20090318**; CN 1842392 A 20061004; JP 2006026640 A 20060202; JP 4916650 B2 20120418; US 2007068910 A1 20070329; US 7355145 B2 20080408; WO 2006006517 A1 20060119

DOCDB simple family (application)  
**EP 05765590 A 20050708**; CN 200580000899 A 20050708; JP 2004204386 A 20040712; JP 2005012652 W 20050708; US 57517205 A 20050708